

ABSTRACT OF THE DISCLOSURE

Apparatus for protecting a two-line electric power distribution system includes a circuit breaker pole in each line. Each pole includes a fault detector generating a fault signal in response to either an arc fault or a ground fault in the protected line, and a trip unit responsive to the fault signal. Each trip unit includes a trip coil and an SCR connected in series at a node with the trip coil connected to the neutral conductor and the SCR connected to the associated line conductor. A jumper connects the two nodes together directly without electrical isolation so that a fault signal from either detector energizes both trip coils to open both poles in response to an arc fault or a ground fault in either line, even if one of the line conductors is not energized.